

S/Monitor 500-6,547 ft  
LSS/Digit 1,000-6,545 ft  
Cyberdip 1,000-6,538 ft  
Check shot/DM 1,000-6,538 ft  
GR 1,000-6,505 ft

Samples:  
Cuttings 1,050-6,552 ft

#### LAST FRONTIER OIL COMPANY

##### Damele No. 1

API no.: 27-011-05000  
Permit no.: 1  
Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 6, T26N, R51E  
Elevation: 5,496 ft  
Completed: Mar. 2, 1961  
Status: Water well  
Depth: 3,549 ft

Samples:  
Cuttings 0-3,351 ft

Remarks: Tertiary oil shows reported (Lintz, 1957a). Well was deepened to final depth in 1962.

#### SHELL OIL CO.

##### Diamond Valley Unit No. 1

API no.: 27-011-05056  
Permit no.: 29  
Location: center, NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 30, T23N, R54E  
660 ft from north line, 1,877 ft from west line  
Elevation: 5,800 ft  
Completed: Oct. 27, 1956  
Status: P & A  
Depth: 8,042 ft

##### Tops:

Surface valley fill  
7,500(?) ft Paleozoic ls. and dol.

##### Logs:

Drilling/Lithologic 0-8,042 ft  
IES 650-8,040 ft  
GR/N 650-8,040 ft  
DM 650-8,040 ft

##### Samples:

Core chips 2,401-7,789 ft (incomplete)

Remarks: Gas shows reported.

#### TAYLOR, JACK

##### Government No. 1

API no.: 27-011-05002  
Permit no.: 57  
Location: center, NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 27, T27N, R50E  
Elevation: 5,675 ft  
Completed: Nov. 13, 1961  
Status: D & A  
Depth: 420 ft  
Tops (from PI):

Surface Tertiary

Remarks: Located approximately 14 miles west of Blackburn field.

#### TAYLOR, JACK

##### Government No. 2

API no.: 27-011-05003  
Permit no.: 65  
Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 27, T27N, R50E  
Elevation: 5,585 ft  
Completed: Aug. 18, 1962  
Status: D & A  
Depth: 1,024 ft

##### Tops:

Surface Tertiary  
Remarks: Located approximately 14 miles west of Blackburn field.

#### TAYLOR, JACK

##### Government No. 3

API no.: 27-011-05010  
Permit no.: 66  
Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 27, T27N, R50E  
Elevation: 5,600 ft  
Completed: Jan. 1, 1964  
Status: D & A  
Depth: 3,828 ft  
Tops (from PI):

2,790 ft Tertiary  
2,860 ft Cretaceous  
3,000 ft Jurassic  
3,120 ft Triassic  
3,200 ft Permian  
3,270 ft Pennsylvanian  
3,600 ft Mississippian  
3,680 ft Silurian  
3,700 ft Ordovician

Remarks: Located approximately 14 miles west of Blackburn field.

## HUMBOLDT COUNTY

Petroleum exploration in Humboldt County is quite limited; only five wells have been drilled, and two of those were drilled in the early 1900's. Oil shows are reported from several of the wells but some of these reports may not be valid. The deepest well drilled in the county is Sun Exploration and Production Co. King Lear Federal No. 1-17 with a total depth of 7,931 ft. This well, drilled in the Black Rock Desert in 1983, had oil and gas shows while drilling and in core samples.

No surface occurrences of hydrocarbons are known in the county and most of the pre-Cretaceous source rocks have probably been heated beyond temperatures at which hydrocarbons are generated and preserved (Harris and others, 1980; Sandberg, 1983). Cretaceous and younger rocks might be potential sources of petroleum where buried deep enough in basins in southern Humboldt County (Willden, 1979).

### Well Data

#### BLACK ROCK OIL, GAS, REFINING & DEVELOPMENT CO.

##### No. 1

API no.: 27-013-05000  
Permit no.: HU2  
Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 13, T35N, R29E  
Completed: Dec. 1921  
Status: P & A  
Depth: 800 ft  
Remarks: Drilled near the Western Pacific Railroad Co. Sulphur-M.P.474.67 well.

#### HUMBOLDT ASSOCIATES

##### Ellison No. 1

API no.: 27-013-05001

## HUMBOLDT COUNTY (continued)

Permit no.: 268

Location: NE ¼ SE ¼ sec. 19, T35N, R42E

2,100 ft from south line, 676 ft from east line

Elevation: 4,400 ft

Completed: Mar. 9, 1980

Status: P & A

Depth: 986 ft

Logs:

Lithologic	10-986 ft
IES	800-984 ft
GR/N	800-984 ft
Com/Pro	800-984 ft
FDL	800-984 ft
Field	0-986 ft

Samples:

Cuttings 0-986 ft

Remarks: Petrographic and water analysis available at NBMG. The completion date is the date that swabbing stopped. Oil shows were reported by the operator when the well was swabbed.

## HUMBOLDT ASSOCIATES

Ellison No. 2

API no.: 27-013-05003

Permit no.: 383

Location: SW ¼ NE ¼ sec. 19, T35N, R42E

2,000 ft from north line, 2,000 ft from east line

Elevation: 4,400 ft

Completed: July 4, 1984

Status: P & A

Depth: 1,020 ft

Logs:

Driller 0-1,020 ft

## SUN EXPLORATION & PRODUCTION CO.

King Lear Federal No. 1-17

API no.: 27-013-05002

Permit no.: 347

Location: SW ¼ SW ¼ sec. 17, T37N, R29E

600 ft from south line, 555 ft from west line

Elevation: 3,950 ft

Completed: June 4, 1983

Status: P & A

Depth: 7,931 ft

Logs:

GR	6,020-7,894 ft
FIL	6,020-7,931 ft
CNL/FDC	6,020-7,929 ft
DI	6,020-7,926 ft
Variable density waveform	6,020-7,932 ft
Computer processed	6,020-7,931 ft

Samples:

Cuttings 10-7,931 ft

Remarks: Core analysis available at NBMG. Oil show reported from core analysis at 6,880-7,052 ft and was detected as yellow and gold specular fluorescence. Very slightly gas-cut mud reported from DST at 6,894-6,930 ft.

## WESTERN PACIFIC RAILROAD CO.

Sulphur-M.P. 474.67

API no.: 27-013-04999

Permit no.: HU1

Location: T35N, R29E

Completed: 1909

Status: D & A

Depth: 970 ft

Logs:

Lithologic 0-970 ft

Remarks: Possible oil show at 845-875 ft, although samples examined at the University of Nevada appear to be a refined product. Water zones at 440-455 ft, 495-510 ft, and 560-670 ft. Well tested to 60 GPM of water. This well was put down at the Western Pacific station of Sulphur, Nevada, at mile post (M.P.) 474.67.

## LANDER COUNTY

Lander County has received only a small amount of drilling attention, and no surface oil shows or seeps are known. One deep well, the Phillips Petroleum Co. Stoneberger Creek Federal A No. 1-35, had a minor gas show. The shallow Voorhees wells were drilled for stratigraphic information in the Battle Mountain area on a presumed anticline. The only oil and gas shows were reported by the operator of the Jeff H. Voorhees No. 1 Fee Well. The deepest well in the county, the ATR Ginn No. 1-13, was drilled as a geothermal well by Chevron to a depth of 9,563 ft with no reported oil or gas shows.

### Well Data

#### ARCO OIL & GAS CO.

Antelope Valley No. 1

API no.: 27-015-05005

Permit no.: 407

Location: NE ¼ NE ¼ sec. 26, T25N, R40E

805 ft from north line, 825 ft from east line

Elevation: 4,948 ft

Completed: Jan. 13, 1985

Status: P & A

Depth: 4,600 ft

Tops:

Surface	Quaternary valley fill
692 ft	Tertiary volc. tuff #1
1,250 ft	Tertiary volc. tuff #2
2,438 ft	Tertiary volc. tuff #3
2,938 ft	pre-Tertiary

Logs:

Lithologic	127-4,600 ft
FDC/CN/GR	53-3,258 ft
DI	45-3,254 ft
DM	3,288-4,596 ft
DL	53-3,258 ft
DLL	3,172-4,600 ft
Digitized waveforms	1,207-3,252 ft
S	46-4,588 ft

Samples:

Cuttings 130-4,600 ft

#### BLALACK DRILLING CO.

Voorhees No. 1

API no.: 27-015-05003

Permit no.: 26

Location: NE ¼ NW ¼ sec. 34, T32N, R45E

98 ft from north line, 2,786 ft from east line

Elevation: 4,537 ft

Completed: 1956

Status: Unknown

Depth: 3,456 ft